



Seamless & Secure

IT-OT-IoT Integration

Smart IoT Highway, SIOTH®, is a scalable and modular IoT platform for IT-OT-IoT integration, data exchange and transformation. It establishes secure end-to-end pipelines in order to collect and store data from edge and IoT devices. SIOTH® turns industrial data into actionable intelligence and increased productivity.



Command & Control Centers



Smart Factories & Industrial Automation



Geographically Distributed Sites



Smart Cities

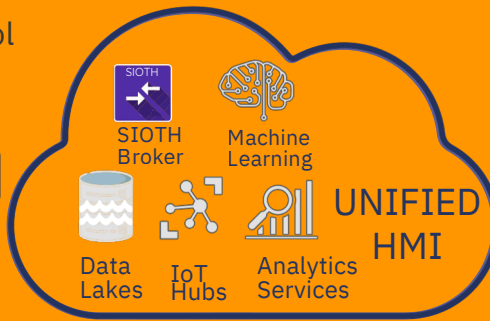
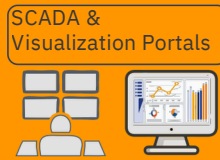


Enterprise-Wide Integration

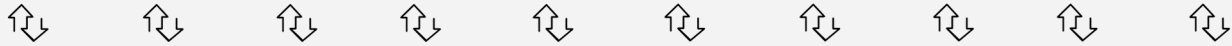


Smart Grid Infrastructures

Enterprise Systems, Command & Control Centers and Operation Centers



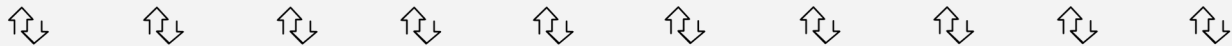
End Users Unified HMI



ADO . NET HTTPS OPC UA FTP REST AMQP Azure Event Hub MQTT Kafka ... API



Modbus DNP WITSML OPC Profinet HartIP BACnet S7 Allen Bradely SNMP ... API



DMZ

Communication & Cyber Security Backbone



Features

IT-OT Data Exchange

- Integration Bus based on publish/subscribe architecture
- **Industrial protocols:** OPC, OPC UA, SNMP, Modbus, DNP, Profinet, Hart IP, IEC 60870-5-104, BACnet, Allen Bradley
- **IoT protocols & APIs:** MQTT, REST, AMQP, Azure Event Hub, FTP, SOAP
- **Databases:** SQL-like and No SQL databases
- **Historians:** InfluxDB, Aveva PI
- More connectivity options via plug-ins support
- Store & forward

Built-In Cyber Security

- Support of DMZ architectures
- Data encryption & Data integrity
- User authentication
- Protocol break
- Configurable communication ports
- Traceability
- ISA/IEC 62443 compliant

Flexible Data Model

- Unified and hierarchical data organization
- Real-time storage of process, system, and security data
- Customizable model enriched with context and semantics for AI and ML use

High Availability & Scalable Architecture

- Scale locally or across multiple interconnected sites
- Distribute data exchange tasks across multiple nodes
- Duplicate jobs and services for fast recovery after failure

AI-Powered Decision Orchestration

- **Automate Intelligence:** Model expert knowledge and deploy AI-driven decisions through powerful, no-code workflows.
- **Simplified Complex Data Operations:** Drastically reduce development complexity by integrating and orchestrating all your logic (rules, scripts, and ML) within a single, modular platform.
- **Explainable AI:** Ensure transparency with auditable expert rules and predictive model insights

Unified HMI for a Single Interface

- Manage devices, sources, and data flows
- Build dashboards and display AI-driven insights
- Deploy monitoring and SCADA applications
- Create customizable graphical components

Flexible User Management

- Configurable user accounts, profiles & access privileges
- Integration with Microsoft Active Directory
- Support of OAuth 2.0 protocol

